

Distribution  
Automation



# Automatic Source Transfer

High speed communication for enhanced system reliability.  
Automatic transfer to alternate source protects service to critical loads.

**COOPER** Power Systems

[www.cooperpower.com](http://www.cooperpower.com)



### AST Application Requirements:

- NOVA, VSA or VWE 3-phase reclosers
- Form 6 controls
- Source- and load-side Potential Transformer (PT) for control power

### Communication Options:

Hardwired:

- Single or multi-mode fiber optics (Serial or Ethernet)
- RS-232/RS-485

### Radio Options:

- Preferred MDS and Ethernet radios

## Protect service to critical loads with rapid, reliable switching between two sources

Cooper Power Systems Automatic Source Transfer (AST) application automatically transfers to an alternate source for critical loads when a loss of voltage event occurs. Form 6 controls communicate via PeerComm, Cooper's high-speed, peer-to-peer protocol. Multiple communications options are available, allowing reclosers to be several miles apart. Automatic Source Transfer allows Form 6 controls to retain their overcurrent protection capabilities.

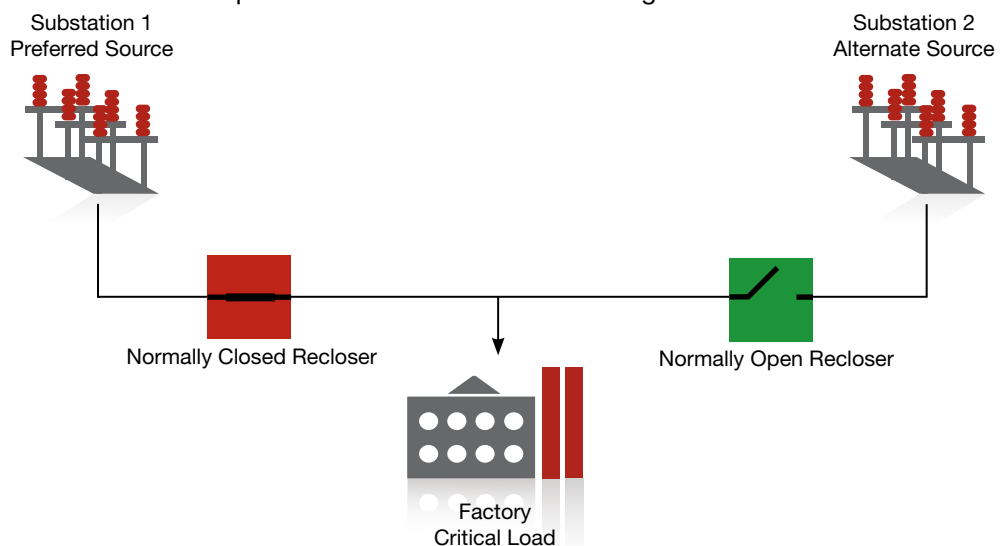
## Rapid communication ensures uninterrupted power

Fast transfer times allow source transfer to occur before the backup power, including generators, is required. When one device declares an AST action, neither device waits for confirmation from the other before initiating an OPEN or CLOSE function. To ensure rapid communication, Cooper recommends utilizing fiber-optic communications which will result in transfer times of 5 to 10 cycles. Other communication options available include radio and twisted pair.

## Flexible, user-selectable restoration options quickly return your system to normal

- Local restoration – each control is manually operated.
- Automatic Restoration/Manual Initiation – restoration to the preferred source is manually initiated from either control.
- Automatic Restoration/Automatic Initiation – occurs once the preferred feeder voltage returns.

For installations where the two sources can be paralleled briefly, the Form 6 AST system uses a Make-before-Break (close device, then open other device) switching order to minimize interruption to the load. If the two sources are from different substations or cannot be paralleled, then a Break-before-Make (open device, then close the other device) switching order is used for all automatic switching sequences. This is a selectable setting.



Call 877-CPS-INFO or visit [www.cooperpower.com](http://www.cooperpower.com) to enhance your system reliability by quickly transferring source loads with the Automatic Source Transfer application.

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